TERNOVSKIY, F.F.

Effect of multiple scattering on the production of pairs of charged particles in high energies in a medium. Zhur.eksp.i teor.fiz. 37 no.4:1010-1016 O '59. (MIRA 13:5)

1. Moskovskiy gosudarstvennyy universitet.
(Electrons)

84720

17.1400
24.4500

S/056/60/039/001/040/041/XX
B006/B056

AUTHOR: Ternovskiy, F. F.

TITLE: Theory of Radiative Processes in Piecewise Homogeneous Media

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960, Vol. 39, No. 1(7), pp. 171-180

IX

TEXT: L. D. Landau, I. Ya. Pomeranchuk, and A. B. Migdal (Refs. 1-4) have shown that radiative processes in media become much less intensive at high energies than what follows from the ordinary theory. M. L. Ter-Mikayelyan in this connection pointed out that, when investigating the radiation of the softest quanta, the effect of polarization of the medium must be taken into account. In the case of a finite medium, two types of transition radiation occur at the boundary. The first type is connected with a modification of the particle field due to polarization of the medium, and occurs at all energies and all rest masses of the particles. Here, an electromagnetic wave of less than optical frequency is emitted to the side that is opposite to the direction of motion. The spectrum of this radiation contains frequencies of up to $\omega = \omega_0/\sqrt{1-\beta^2}$, where

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Theory of Radiative Processes in Piecewise Homogeneous Media

S/056/60/039/001/040/041/XX
B006/B056

$\omega_0^2 = 4\pi nZe^2/m$, $v = \beta c$ is the particle velocity. The second type is connected with the influence of multiple scattering; it occurs only at sufficiently high energies, and can be observed only in the case of electrons and positrons. Its angular distribution has a marked maximum in the direction of motion, and the spectrum can, at sufficiently high energy, attain frequencies of the order of $mc^2/\hbar\sqrt{1-\beta^2}$. A classical theory of this radiation was developed by I. I. Gol'dman (Ref. 9). In the present paper, the transition radiations of both types are quantum-theoretically investigated; it is first assumed that the semispace $z > 0$ is filled with a medium, for which $|1 - \sqrt{\varepsilon}| \ll 1$, and $z < 0$ is assumed to be a vacuum. The radiation is investigated that occurs when a fast electron ($p_0 \gg 1$), coming from the vacuum, penetrates into the medium, ($\hbar = m = c = 1$), where multiple scattering and polarization of the medium are taken into account. In the following, the author investigates the radiation occurring when an electron passes through a plate of finite thickness. Using the results obtained by Migdal, the probabilities for bremsstrahlung and pair production by gamma quanta are calculated. The author thanks Professor A. B. Migdal for suggesting the problem and for discussions, V. D. Vaks for his help, and I. I. Gol'dman for making results available before their publication.

Card 2/3

84720

Theory of Radiative Processes in Piecewise Homogeneous Media

S/056/60/039/001/040/041/XX
B006/B056

G. M. Garibyan is mentioned. There are 1 table and 11 references: 9 Soviet, 1 British, and 1 US.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED: February 25, 1960

Card 3/3

83201

S/056/60/039/002/038/044
B006/B070

24.6600

AUTHOR: Ternovskiy, F. F.

TITLE: The Effect of Multiple Scattering on the Proper Field of a Fast Charged Particle

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960, Vol. 39, No. 2(8), pp. 491 - 496

TEXT: At first the author briefly discusses the related investigations of I. I. Gol'dman and G. M. Garibyan (Refs. 1,3). In the present paper, it is shown that the appearance of a transition radiation, that was predicted by the theory of Gol'dman, is related also to the change in the structure of the proper field of the particle, this change being a consequence of multiple scattering. This problem is treated in the second section of the paper, where the number of quanta per unit spectral interval are calculated. The number of quanta is equivalent to the proper field of the particles moving in the medium (Formula (6)). It is shown (Formula (9)), further, that the number of equivalent photons in vacuum, which are calculated according to the known formula of Weizsäcker and Williams

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The Effect of Multiple Scattering on the Proper Field of a Fast Charged Particle

S/056/60/039/002/038/044
B006/B070

(Ref. 4), agrees well with the number of transition quanta plus the number of photons which are equivalent to the field of the particle in the medium. For distances from the point of entrance in the medium that are smaller than the avalanche unit and in which the transition quanta cannot be absorbed, the cross section of direct pair formation is proportional to the number of equivalent photons in vacuum; for larger distances from the point of entrance which is no longer reached by transition radiation, the number of pairs directly produced by the field of the particle is proportional to the number of equivalent photons in the medium. Section 3 is concerned with this problem. In section 4, the author studies the process of pair formation by particles penetrating the medium for the case when the region, in which the radiation field is built, is of the same order of magnitude as the avalanche unit. Here it is not possible to consider separately the cross section for indirect pair formation. The total number of pairs formed in a depth which is large compared to the avalanche unit is given by the formula (19). A. B. Migdal, L. D. Landau, and I. Ya. Pomeranchuk are mentioned in the paper. There are 8 references: 7 Soviet and 1 US.

4

The Effect of Multiple Scattering on the Proper Field of a Fast Charged Particle

83201
S/056/60/039/002/038/044
B006/B070

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED: March 25, 1960

Card 3/3

ACC NR: AP7002585 SOURCE CODE: UR/0020/66/171/005/1084/1087

AUTHOR: Ternovskiy, F. F.

ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet); Scientific Research Institute of High Temperatures (Nauchno-issledovatel'skiy institut vysokikh temperatur)

TITLE: Certain effects due to diamagnetism of the winding of a superconducting solenoid

SOURCE: AN SSSR. Doklady, v. 171, no. 5, 1966, 1084-1087

TOPIC TAGS: superconductivity, solenoid, electric inductance, electric measurement, quantum effect

ABSTRACT: The purpose of the investigation was to ascertain what information concerning the properties of hard superconductors can be extracted from inductance measurements, since experiments have shown that the inductance of a superconductor depends greatly on the current flowing in it and on the external magnetic field. The properties of a superconducting solenoid are analyzed by using the dependence of the magnetic flux linking the turns of the solenoid on the current. The flux in turn is separated into external and internal components, with particular attention paid to the effect of the internal component, whose filamentary nature (quantum vortices) results in nonuniform magnetization, owing to the interaction between the quantum vortices and inhomogeneities in the superconducting material. An expression for the

Card 1/2 UDC: 537.312.62

ACC NR: AP7002385

internal flux is derived under certain assumptions concerning the distribution of the induction inside the solenoid, and a table of numerical values for the coefficients of this expression is presented. This leads to an expression for the inductance of the superconducting solenoid in the form of two components: external inductance, which is almost independent of the current, and internal inductance which depends both on the current and on the magnetic history of the solenoid. It is pointed out that usual impedance measurements give only the external inductance. It is noted that recent measurements of the internal flux in the superconductor agree with the approximate calculations presented in the paper. The author thanks V. V. Andrianov, V. B. Zenkevich, and V. V. Sychev for information on the results of the experiments and for fruitful discussions. This report was presented by Academician M. A. Leontovich 21 February 1966. Orig. art. has: 1 figure, 13 formulas, and 1 table.

SUB CODE: 20/ SUBM DATE: 10Dec65/ ORIG REF: 002/ OTH REF: 006

Card 2/2

MELESHKIN, S.M., gornyy inzhener; BERLYAND, S.S., gornyy inzhener; SIROTKIN, Z.L., inzh.; DENISOV, A.G., inzh.; TERNOVSKIY, G.I., inzh.; BEKHTEREV, Yu.I., inzh.; ZOTOV, A.V., inzh.; IVANOV, E.I., inzh.; VASIL'YEV, Ye.A., inzh.; SOLOV'YEVA, L.G., inzh.; D'YACHENKO, V.F., inzh.

Replies to V.V. Shan'ko's article "Efficient limits of using truck haulage in open pits." Gor. zhur. no.1:75-77 Ja '62. (MIRA 15:7)

1. Gosudarstvennyy nauchno-ekonomicheskiy sovet Soveta Ministrov SSSR (for Meleshkin). 2. Promtransproyekt Gosstroya SSSR (for Berlyand). 3. Belorusskiy avtozavod (for Sirotkin, Denisov, Ternovskiy, Bekhterev, Zotov, Ivanov). 4. Gosudarstvennyy institut po proyektirovaniyu razrabotki rudnykh mestorozhdeniy v yuzhnykh rayonov SSSR, Khar'kov (for Vasil'yev, Solov'yeva, D'yachenko).

(Mine haulage)
(Shan'ko, V.V.)

DENISOV, Aleksandr Gavrilovich; KAZAREZ, Aleksey Nikolayevich; SIROTKIN, Zalya L'vovich; TERNOVSKIY, Genrikh Ivanovich; SHUMSKIY, Mechislav Frantsevich; LESNYAKOV, F.I., red.; GALAKTIONOVA, Ye.N., tekhn. red.

[MAZ-525 dump truck; its design and operation] Avtomobil'-samosval MAZ-525; ustroistvo i ekspluatatsiia. Moskva, Avtotransizdat, 1963. 166 p. (MIRA 16:10)
(Dump trucks)

CHERNOVSKIY, G.V., kapitan 1.go ranga v otstavke, Geroy Sovetskogo Soyuza

The feats of heroes are immortal; on the 20th anniversary of the liberation of Sevastopol. Mor. sbor. 47 no.5:19-22 My '64. (MIRA 18:6)

L 24214-65 EWT(m)
ACC NR: AP6014669 SOURCE CODE: UR/0241/65/010/010/0037/0041

AUTHOR: Yerokhin, R. A.--Erokhin, R. A.; Koshurnikova, N. A.; Tornovskiy, I. A.--Ternovsky, I. A.

ORG: none

TITLE: Gamma-spectrometric intravital determination of Pu in the living organism

SOURCE: Meditsinskaya radiologiya, v. 10, no. 10, 1965, 37-41

TOPIC TAGS: plutonium, gamma spectrometer, radiology, americium, scintillation spectrometer, photomultiplier, pulse analyzer, pulse amplitude, rat, liver/FEU-24 photomultiplier, AI-100 pulse analyzer

ABSTRACT: The results of an experimental determination of the possibility of the direct intravital measurement of Pu^{239} and Am^{241} in the organism by means of a scintillation gamma-spectrometer are presented. The principal components of the spectrometer used were: a NaI(Tl) scintillation crystal 20 mm thick and 40 mm in diameter, with an FEU-24 photomultiplier and an AI-100 pulse-amplitude analyzer. White rats were given, intravenously or intratracheally, Pu in the form of the nitrate salt $[Pu(NO_3)_4]$ with a pH value of 2.0, in the amount of 5 microcuries per rat, or Am^{241} in the form of the nitrate $[Am(NO_3)_3]$ with a pH of 2.8, in the amount of 2.72 microcuries per rat. The Pu and Am^{241} contents of the rat organism were measured immediately afterward as well as at intervals of 1, 2, 4, 8, 16, 32, and 64 days. Lung activity varied identically in rats intratracheally poisoned with Pu and Am^{241}

Card 1/2 UDC: 616-008.927.994-073.584

L 24233-66

ACC NR: AP6014669

nitrates: toward the 16th day the activity dropped 30%; toward the 32nd day, 50%; and toward the end of the experiment, 65%. Throughout the experiment, the content of Pu exceeded that of Am^{241}. The dynamics of the change in liver activity following administration of the Pu nitrate toward the 3rd, 7th, 30th, and 60th day was 87, 72, 41.8, and 22.5%, respectively, for Am^{241} these dynamics differed somewhat. In addition, the minimum amounts of Pu and Am^{241} still detectable by the spectrometric method in different organs (kidneys, liver, hip, spleen) were determined; for Pu they were found to correspond to 0.019-0.045 microcuries per rat organ, and for Am^{241}, to 0.0028-0.0087 microcuries per rat organ. Orig. art. has: 2 figures and 4 tables. [JPRS]

SUB CODE: 06, 09, 20, 07 / SUBM DATE: 12Jan65 / ORIG REF: 003 / OTH REF: 005

Card 2/2 dda

TERNOVSKIY, I. N.: "The use of sulfoxin to treat [illegible]." Min Health RSFSR. Kuban' State Medical [illegible] Inst [illegible]. Krasnodar, 19[illegible].
(Dissertation for Degree of Candidate in Medical Sciences).

SO: Knizhnaya Letopis', [illegible], 19[illegible]

TERNOVSKIY, I.N.

Dispensary services for mental patients in certain rural regions of Krasnodar Territory. Zhur. nevr. i psikh 58 no.12:1494-1497 '58. (MIRA 12:1)

1. Kafedra psikhiatrii (zav. - prof. N.I. Bondarev) Kubanskogo meditsinskogo instituta.

(MENTAL DISORDERS, ther.
in rural cond. (Rus))

AUTHORS: Tulinova, V. B., Plyushchev, V. Ye., Ternovskaya, I. V., Lukova, S. N. Samuseva, R. G.

S/078/60/005/03/033/048
B004/B005

TITLE: Investigation of the Joint Solubility of Lanthanum and Sodium Sulfates

PERIODICAL: Zhurnal neorganicheskoy khimii, 1960, Vol 5, Nr 3, pp 695-700 (USSR)

ABSTRACT: The present paper is part of an extensive investigation of the physicochemical foundation of methods of separating rare earths which was started together with G. G. Urazov (Ref 3). The solubility in the system $La_2(SO_4)_3$ - Na_2SO_4 - H_2O was determined at 25, 50, and 75°. The binary systems which are components of this system have been described in publications. The solubility was determined by the isothermal method. The equilibrium between solution and precipitate was established after 14 days which was checked analytically. The sulfate ion was determined gravimetrically as $BaSO_4$, the lanthanum ion either gravimetrically as oxalate or, at low concentrations, colorimetrically according to reference 10. The results are shown in tables 1-3 (for 25, 50, and 75°), and as a diagram in figure 1. One double salt $La_2(SO_4)_3 \cdot Na_2SO_4 \cdot 2H_2O$ forms

Card 1/2

Investigation of the Joint Solubility of Lanthanum and Sodium Sulfates

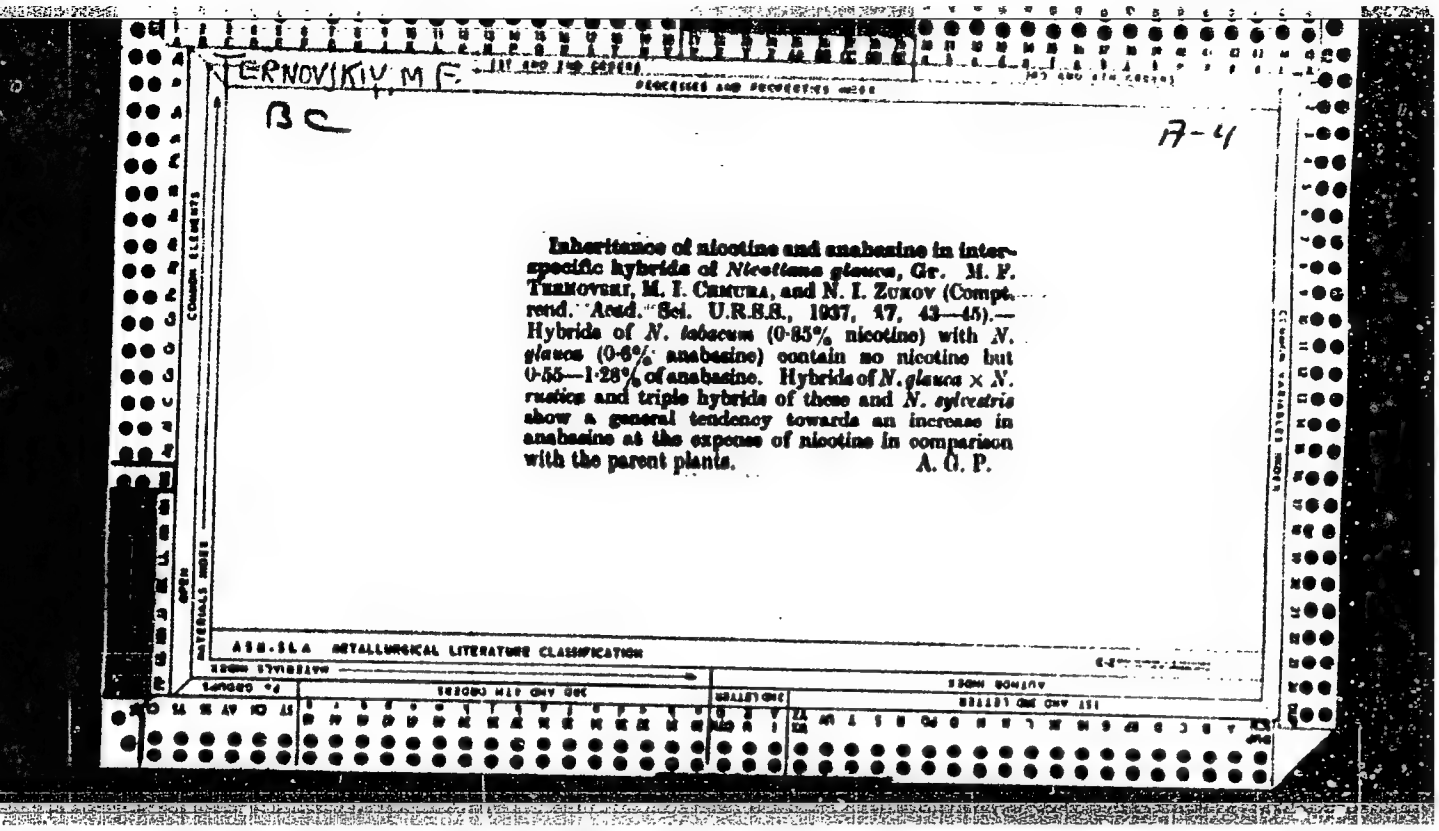
S/078/60/005/03/033/048
B004/B005

in the system investigated; its thermogram is shown in figure 2, its Debye-pattern data in table 4. There are 1 figure, 4 tables, and 11 references, 6 of which are Soviet.

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M. V. Lomonosova
(Moscow Institute of Fine Chemical Technology imeni M. V. Lomonosov)

SUBMITTED: November 5, 1958

Card 2/2



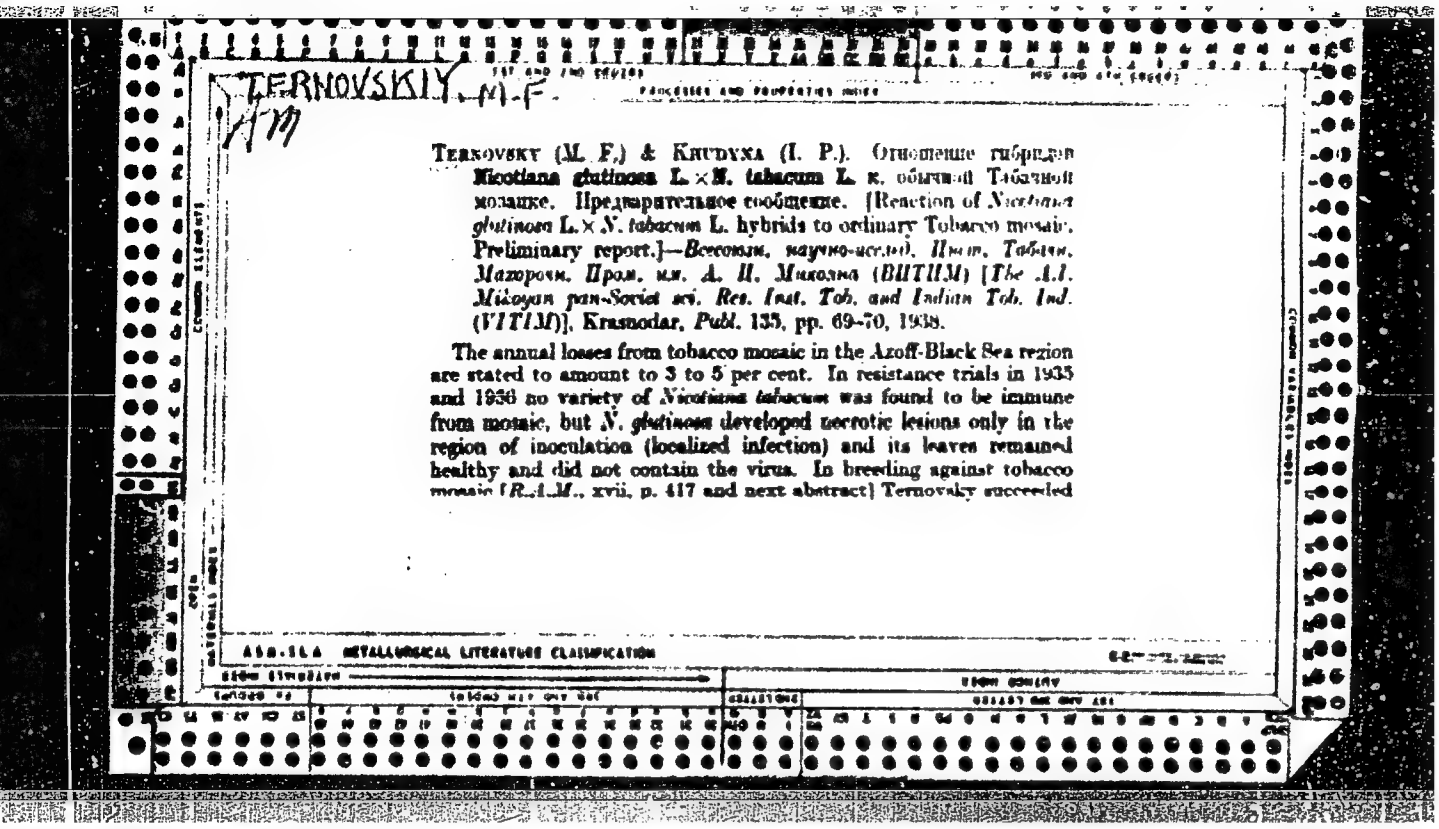
TERNOVSKIY, M F

B C

A7-4

Inheritance of nicotine and anabasine in interspecific hybrids of *Nicotiana glauca*, Gr. M. F. TERNOVSKII, M. I. CHETUBA, and N. I. ZUKOV (Compt. rend. Acad. Sci. U.R.S.S., 1937, 17, 43—45).—Hybrids of *N. tabacum* (0·85% nicotine) with *N. glauca* (0·6% anabasine) contain no nicotine but 0·55—1·28% of anabasine. Hybrids of *N. glauca* × *N. rustica* and triple hybrids of these and *N. sylvestris* show a general tendency towards an increase in anabasine at the expense of nicotine in comparison with the parent plants. A. G. P.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



TERNOVSKIY, M.F.

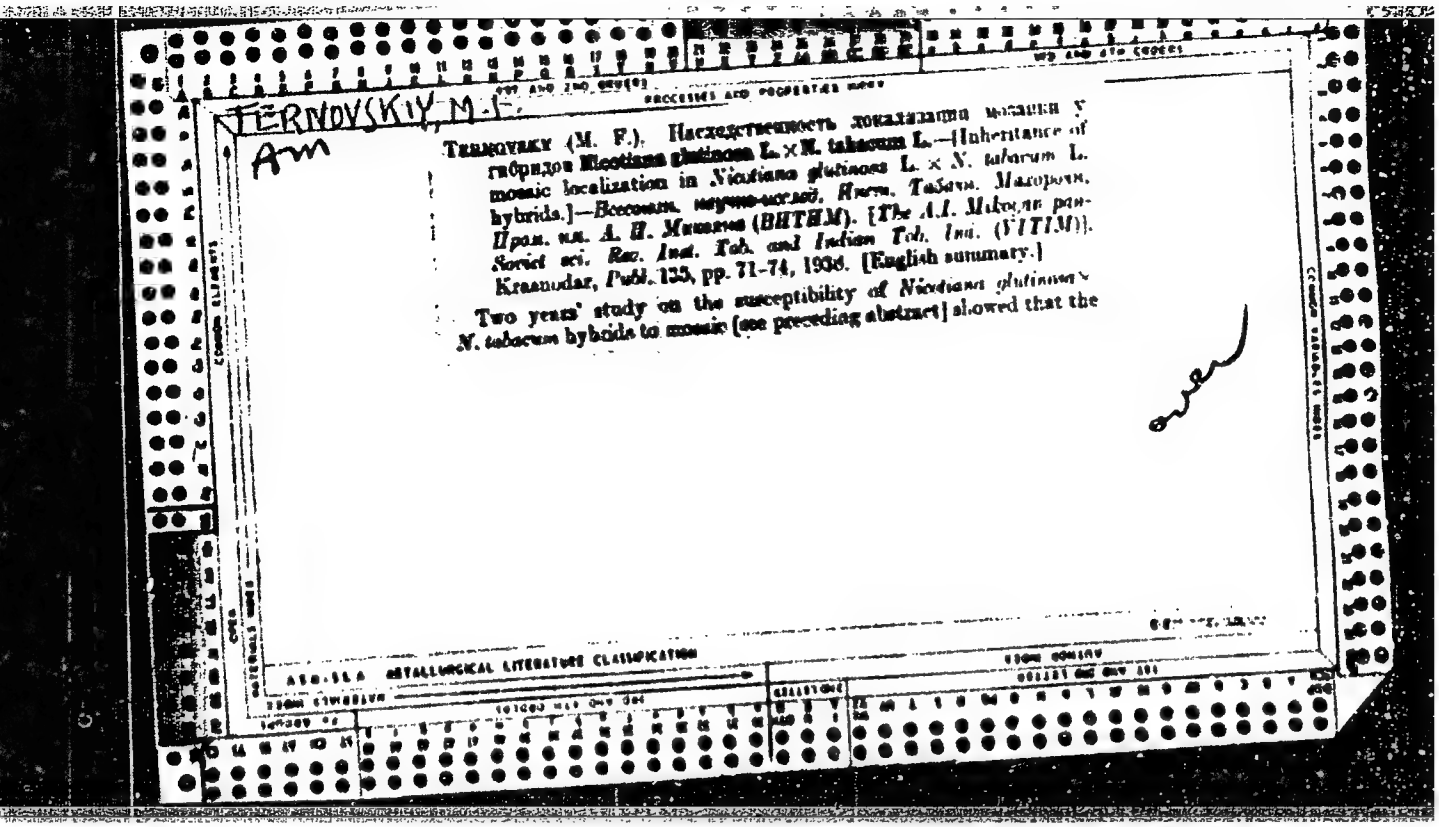
Ternovsky (M. F.) & Krudyka (I. P.). Отношение гибридов **Nicotiana glutinosa L. × N. tabacum L.** к обычной Табачной мозаике. Предварительное сообщение. [Reaction of *Nicotiana glutinosa* L. × *N. tabacum* L. hybrids to ordinary Tobacco mosaic. Preliminary report.]—*Всесоюзн. научно-исслед. Инст. Табака, Махорки, Прод. им. А. И. Микояна (ВИТИМ)* [*The A.I. Mikoyan pan-Soviet sci. Res. Inst. Tob. and Indian Tob. Ind. (VITIM)*], Krasnodar, *Publ.* 135, pp. 69–70, 1938.

The annual losses from tobacco mosaic in the Azoff-Black Sea region are stated to amount to 3 to 5 per cent. In resistance trials in 1935 and 1936 no variety of *Nicotiana tabacum* was found to be immune from mosaic, but *N. glutinosa* developed necrotic lesions only in the region of inoculation (localized infection) and its leaves remained healthy and did not contain the virus. In breeding against tobacco mosaic [*R.A.M.*, xvii, p. 417 and next abstract] Ternovsky succeeded

A58.16A METALLURGICAL LITERATURE CLASSIFICATION

in 1932 in obtaining amphidiploids from the cross *N. glutinosa* × *N. tabacum* with 2 genoms of *N. glutinosa* (24 chromosomes) and 2 genoms of *N. tabacum* (48 chromosomes). Back-crossing to *N. glutinosa* produced a sesquidiploid with 2 genoms of *N. glutinosa* and 1 genom of *N. tabacum*; back-crossing to *N. tabacum* produced a sesquidiploid with 2 genoms of *N. tabacum* and 1 genom of *N. glutinosa*.

Inoculation experiments showed that in the first generation hybrids both sesquidiploids exhibited only local infection; the second generation from the sesquidiploid with 2 genoms of *N. tabacum* segregated in the number of chromosomes and in resistance to mosaic, the majority of the plants showing general infection; in the third generation from the sesquidiploid with 2 genoms of *N. tabacum*, 10 out of 19 examined families were found to contain resistant plants, one of these lines showing 50 per cent. plants with local infection.

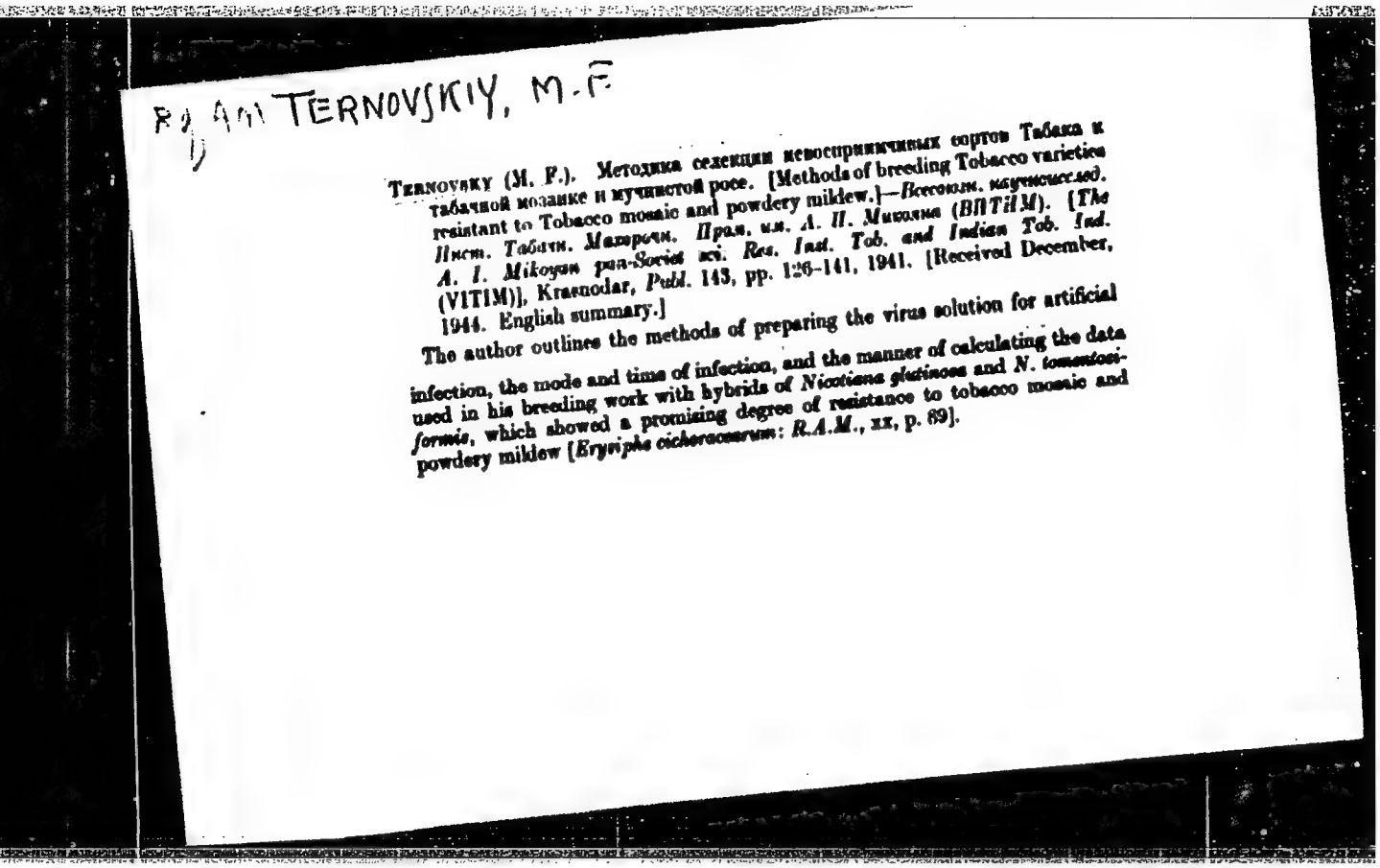


TERNOVSKIY, M. F.

Am

TERNOVSKY (M. F.). Наследственность локализации мозаики у гибридов Nicotiana glutinosa L. × N. tabacum L.—[Inheritance of mosaic localization in Nicotiana glutinosa L. × N. tabacum L. hybrids.]—Всесоюз. научно-исслед. Инст. Табака. Махорки. Прод. им. А. И. Микояна (ВНТИМ). [The A.I. Mikoyan pan-Soviet sci. Res. Inst. Tob. and Indian Tob. Ins. (VITIM)]. Krasnodar, Publ. 125, pp. 71–74, 1936. [English summary.]

Two years' study on the susceptibility of Nicotiana glutinosa × N. tabacum hybrids to mosaic [see preceding abstract] showed that the



R 2 4m TERNOVSKIY, M.F.

Ternovsky (M. F.). Методика селекции невосприимчивых сортов Табака к табачной мозаике и мучнистой росе. [Methods of breeding Tobacco varieties resistant to Tobacco mosaic and powdery mildew.]—*Всесоюзн. научно-исслед. Инст. Табака. Материал. Трад. им. А. И. Микояна* (*ВНИТИМ*). [*The A. I. Mikoyan pan-Soviet sci. Res. Inst. Tob. and Indian Tob. Ind.* (VITIM)], Krasnodar, *Publ.* 143, pp. 126-141, 1941. [Received December, 1944. English summary.]

The author outlines the methods of preparing the virus solution for artificial infection, the mode and time of infection, and the manner of calculating the data used in his breeding work with hybrids of *Nicotiana glutinosa* and *N. tomentosiformis*, which showed a promising degree of resistance to tobacco mosaic and powdery mildew [*Erysiphe cichoracearum*: *R.A.M.*, xx, p. 69].

TERNOVSKIY, M.F.

CSRS L No. 45

Ternovskiy, M.F. (A.I. Mikoyan All-Union Scientific Research Institute of Tobacco), Changes of resistance to tobacco mosaic as a result of vegetative hybridization, 517-20

Akademiya Nauk S.S.S.R. Doklady Vol. 79 No. 3, 1951

B-5

USSR / General Biology. Genetics

Abs Jour : Ref Zhur - Biol., No 11, 1958, No 47621

Author : Ternovskiy, M. F.
Inst : Not given
Title : The Introduction of Resistant Varieties of Tobacco.

Orig Pub : Michurinsk Sb Krasnodar, 'Sov Kuban', 1957, 158-168.

Abstract : The wild-growing variety Nicotiana glutinosa which is resistant to tobacco mosaic and to Erysiphe graminis was crossed with cultivated tobacco varieties late in the fall when a lowering of the temperature had already set in. The F_1 showed 1-2% amphidiploids. The latter were found to be resistant to both diseases but the quality of the production obtained from them was low. The amphidiploids were crossed with the better quality cultured varieties. The subsequent generations selected for high agrotechnical indices were repeatedly crossed with cultivated varieties. Resistance was

Card 1/2

Abs Jour : Ref Zhur - Biol., No 11, 1958, No 47621

Abstract : always found to be dominant over susceptibility. The immunity was observed to be operative at all stages of development of the plants, resulting in the development of varieties resistant to both tobacco mosaic and Erysiphe graminis. The resistant new variety Trapezond 161 in epidemic years outyields the unresistant former standard Trapezond 1272 by 20-50%. The new resistant variety Alma-Ata Dyubek 7 outyields the previous standard Dyubek 44 by 33% on the average and also yields a better quality tobacco. P. M. Grushevaya has obtained by crossing cultivated tobacco varieties with N. glutinosa; the new variety is resistant to both tobacco mosaic and to black root rot.

COUNTRY : USSR
CATEGORY :

ABS. JOUR. : RZBiol., No. 19, 1958, No. 87182

AUTHOR : Ternovskiy, M. F.
INST. :
TITLE : The Utilization of Wild Species of Tobacco in Selection for Disease Resistance.

ORIG. PUB. : Vestn. s.-kh. nauki, 1958, No 1, 137-139

ABSTRACT : Tobacco of the Dyubek 44 variety was crossed with a wild species Nicotiana glutinosa, which has the capability of localizing the virus of tobacco mosaic by forming necrotic spots on the leaves. There were obtained a small number of constant-intermediate hybrid-amphi-diploids (with a doubled set of chromosomes) which were not susceptible to tobacco mosaic but exhibited a number of undesirable characteristics. For their elimination use was made of repeated impregnation of fertile hybrids with tobacco, and continuous selection for immunity, plant vigor, degustatory characteristics and leaf color. In this manner were obtained, for the first time, tobacco

CARD:1/3

Country : USSR M-7
CATEGORY :

ABS. JOUR. : RZBiol., No. 19, 1958, No. 87182

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : varieties that are immune to tobacco mosaic. The same fertile hybrids between tobacco and N.glutinosa were used to produce varieties that are immune to parasitic fungus Erysiphe graminis. As a result, completely immune tobacco varieties were developed: Dyubek 566, Samsun 47/10 Alma-Atinskiy 315, Amerikan 287, Trapezond 141, Trapezond Talasskiy, Immunnyy 3000. Some of them have already been put in production. The development of multiple-immunity tobacco varieties is an important achievement of Soviet science. Resistance to disease of the wild species N.alata could not be put to use, because of considerable difficulty of crossing it with tobacco and the sterility of first generation hybrids. By crossing the resistant wild

CARD: 2/3

M-7

COUNTRY : USSR
CATEGORY :

ABS. JOUR. : RZBiol., No. 19, 1958, No. 87182

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : species N. glauca with tobacco and N. rustica, fertile hybrids were obtained, some of which can serve as starting material for the development of varieties of N. rustica that are resistant to top chlorosis (virus disease of N. rustica). Hybridization between species can also be successfully utilized for the production of forms of tobacco and N. rustica which are resistant to other diseases and infection. The work was carried out by the All-Union Scientific Research Institute of Tobacco and N. rustica. -- L. A. Lomakina.

CARD: 3/3

TERNOVSKIY, M.F.; TERENT'YEVA, A.I.

Role of grafting in increasing the crossability of Nicotiana species. Dokl.AN SSSR 132 no.4:932-935 Je '60. (MIRA 13:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tabaka i makhorki, g. Krasnodar. Predstavleno akademikom N.V.TSitsinym.
(Tobacco breeding) (Grafting)

ANTONENKO, G.P., agronom; KHOKHRYAKOV, M.K., prof.; TERNOVSKIY, M.P., prof.

Peronospora (downy mildew) infection of tobacco in Czechoslovakia.
Zashch. rast. ot vred. i bol. 6 no.5:53-54 My '61. (MIRA 15:6)
(Czechoslovakia—Tobacco blue mold)

TERNOVSKIY, M. F., prof.

Tobacco varieties unsusceptible to diseases. Zashch. rast. ot vred. i bol. 6 no.6:26-27 Je '61. (MIRA 16:4)

1. Vsesoyuznyy institut tabaka i makhorki, Krasnodar.

(Tobacco—Disease and pest resistance)

TERNOVSKIY, M.F.

Polyploidy in the genus Nicotiana. Trudy MOIP.Otd.biol. 5:230-237 '62. (MIRA 16:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tabaka i makhorki, Krasnodar.

(TOBACCO BREEDING) (POLYPLOIDY)

TERNOVSKIY, M.F.; DASHKEYEVA, K.N.

Responses of the species Nicotiana to infection with false tobacco mildew. Dokl. AN SSSR 150 no.4:931-933 Je '63. (MIRA 16:6)

1. Institut fiziologii i biokhimii rasteniy AN Moldavskoy SSR. Predstavleno akademikom N.V. TSitsinym.

(Tobacco blue mold)
(Tobacco—Diseases and pests)

TERNOVSKIY, M.F., doktor sel'skokhoz.nauk; DASHKEYEVA, K.N., kand.biolog. nauk

Estimating the resistance of tobacco to downy mildew. Zashch. rast. ot vred. i bol. 9 no.1:20-23 '64. (MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tabaka i makhorki imeni A.I.Mikoyana, Krasnodar, i Institut fiziologii i biokhimii rasteniy AN Moldavskoy SSR, Kishinev.

TERNOVSKIY, M.F.; DASHKEYEVA, K.N.

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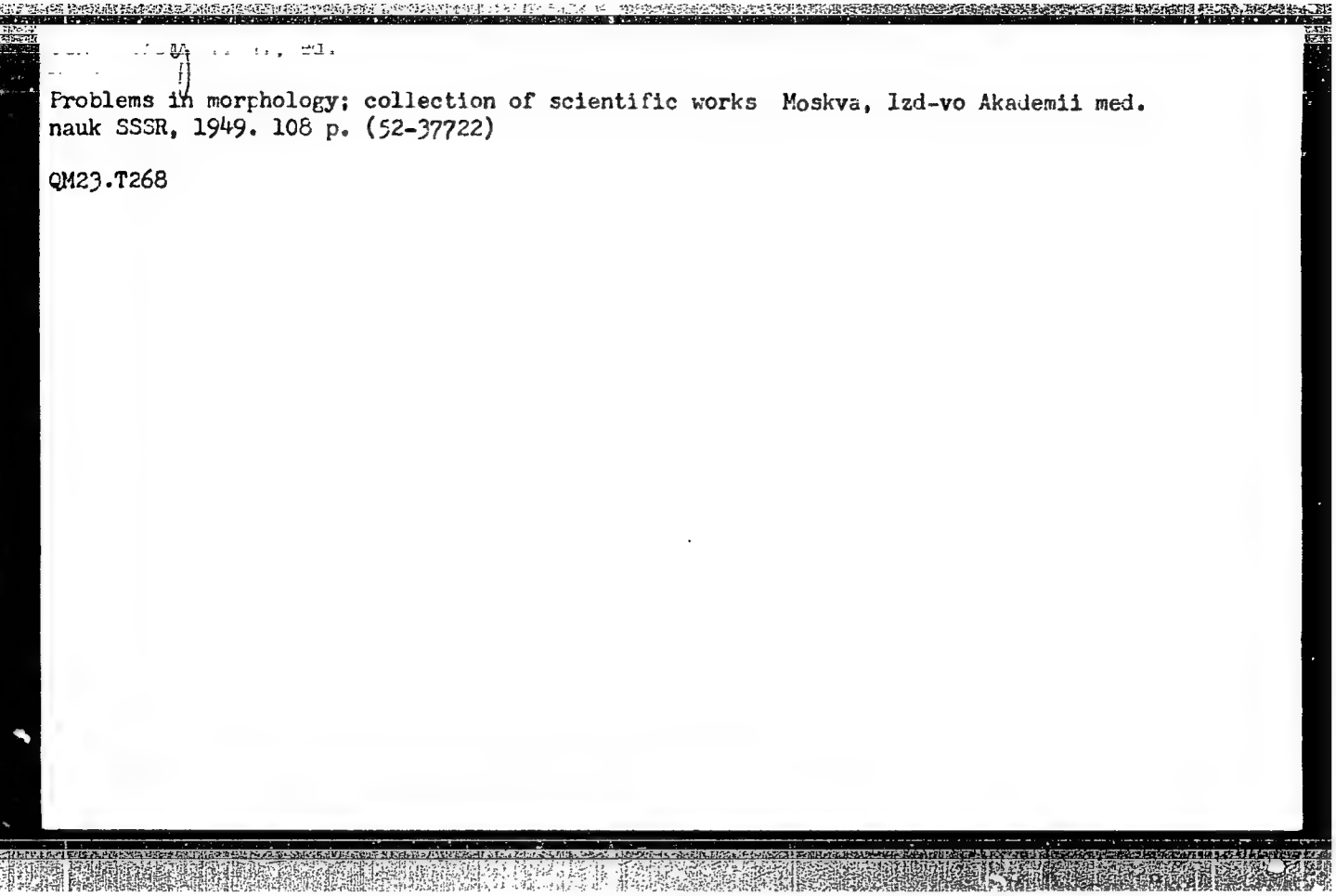

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SOV/20-122-3-34/57

AUTHORS: Gindin, L. M., Bobikov, P. I., Kouba, E. F., Kopp, I. F., Rozen, A. M., Ter-Oganesov, N. A., Zagarskaya, N. I.

TITLE: Separation of Metals by the Exchange-Extraction Method (Razdeleniye metallov metodom obmennoy ekstraktsii)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 122, Nr 3, pp 445-447 (USSR)

ABSTRACT: An extraction in connection with an exchange reaction between metals is a very productive method of separation if these metals are in different phases: in an organic phase as salts and aliphatic acids and in an aqueous phase as salts of mineral acids (Ref 1). For this purpose saturated aliphatic acids with 5 and more carbon atoms were used. They fulfill a double function: a) they take part in the formation of the corresponding metallic salts (soaps), and b) they serve as solvents for these soaps being formed. Aliphatic acids are used most properly as solutions in an inactive solvent with a low specific weight. Directions for the preparation of such solutions are mentioned. The exchange reaction between the metals as mentioned earlier can be expressed by the following equation:

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$$({}^{1}Me^{2+})_{aqu} + ({}^{2}MeR_2)_{org} \longrightarrow ({}^{1}MeR_2)_{org} + ({}^{2}Me^{2+})_{aqu}; \quad (1)$$

^{1}M and ^{2}M denote the corresponding metals, R - the organic residue of the aliphatic acid $C_nH_{2n+1}COO'$, the indices org and aqu denote the organic and the aqueous phase. The equilibrium constant of the exchange reaction depends on the character of the exchanging metals, as was confirmed by the experiments. Metals with a small pH value ("acid" metals) mainly pass into the organic phase, metals with a high pH value, however, (more alkaline metals) into the aqueous phase. In many cases reaction (1) takes place almost completely (>99%), it may therefore be said that a metal is displaced from the organic phase by another metal. Separation of the metallic salts by means of the reaction mentioned in the title can be carried out from the aqueous as well as from the organic phase. In the first case (Fig 1) the aqueous phase which contains a mixture of salts of two metals is brought into contact with the organic phase in which a salt of an aliphatic acid of a stronger alkaline metal is contained. In the second case the organic phase which contains a mixture of salts of the aliphatic acids is brought into contact with the aqueous phase which contains a salt of a mineral acid of a

Separation of Metals by the Exchange-Extraction Method SOV/20-122-3-24/...

weaker alkaline metal. Table 1 reveals the results of separation of metallic salts combined with sulfuric acid by means of the discussed method. As organic phase a solvent of industrial aliphatic acids of the fraction C_7 - C_9 (average molecular weight 141) in petroleum (400 g/liter) was used. Data on table 1 characterize a single exchange. By using an extraction column the degree of separation is considerably increased. If metals have similar properties reaction takes place incompletely. There are 2 figures, 1 table, and 1 reference, 1 of which is Soviet.

ASSOCIATION: Noril'skiy gorno-metallurgicheskiy kombinat im. A. P. Zavenyagina (Noril'sk Mining Metallurgy Kombinat imeni A. P. Zavenyagin)

PRESENTED: May 4, 1958, by S. I. Vol'fkovich, Member, Academy of Sciences, USSR

SUBMITTED: April 12, 1958

Card 3/3

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Ter-Oganesov, Ya. G.

AUTHORS: **Ter-Oganesov, Ya. G.**, Gyayta, T. I., Roshchin, Yu. V. 89-1-21/29

TITLE: The Applications of Aeroradiometric Methods for the Detection of Workable Minerals (Primeneniye aeroradiometricheskikh metodov dlya poiskov razlichnykh poleznykh iskopayemykh)

PERIODICAL: Atomnaya Energiya, 1958, Vol. 4, Nr 1, pp. 1o2-1o2 (USSR)

ABSTRACT: With a few words the authors deal with the contents and the conclusions to be drawn from the following publications:
Aviation Week, 64, 2, p.74
Canad. Chem.Process, 37, 13, p. 66
Mines Mag., 46, 7, p. 31 (Kellog)
World Petrol, 23, 5, p. 1o9 (Lundberg)
Mining J., 234, p. 7o8 (1954)
Eng. and Mining J., 1954,Nr 7. p. 266
Photogram. Eng., 2o, Nr 4, (1954)
There are 7 non-Slavic references.

AVAILABLE: Library of Congress

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SOV/11-59-6-15/15

30(7)

AUTHORS: Shcherbakov, D.I. and Ter-Oganesov, Ya.G.

TITLE: Scientific Ties with Belgian Scientists

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geologicheskaya, 1959, Nr 6, pp 126-128 (USSR)

ABSTRACT: The authors describe their impression of the Brussels World Exhibition and the contact they established with Belgian scientists. Professor N.P. Yermakov and geologist T.T. Matrenitskiy also took part in the personal contacts with the Belgians.

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AUTHORS: Gvayta, T. I., Ter-Oganesov, Ya. G. (Moscow)

TITLE: Prospecting for Rare and Disperse Elements With Radioactive Methods

PERIODICAL: Izvestiya Akademii nauk Armyanskoy SSR. Geologicheskiye i geograficheskiye nauki, 1960, Vol. 13, No. 3-4, pp. 57-63

TEXT: The present paper gives a general survey of the possibilities of prospecting for non-radioactive rare and disperse elements by radiometric methods. Many of these deposits also contain a certain amount of uranium and thorium which cause gamma anomalies in the deposits. Sometimes uranium and thorium minerals are paragenètically associated with the mineralization of rare and disperse elements, such as with beryllium and columbite - tantalite in pegmatites, with beryllium and wolframite in greisenizations; sometimes the uranium and thorium minerals themselves such as pyrochlore lovtschorrite, fergusonite, monazite, xenotime, etc. are carriers of the rare elements. Besides, uranium and thorium may occur as isomorphous

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constituents in the gangue and in the accessories like in apatite, sphene, zircon, fluorite, and others. The magmatogenous deposits were divided according to the type of mineralization and the radiometric properties: a) Premagmatic type: mineralization consists in finely distributed loparite, lovtschorrite, dysanalyte or knopite. Thorite, lovtschorrite etc.are radioactive minerals. The anomaly occurs locally and isometrically. b) Post-magmatic type: The mineralization is related to late displacement processes, especially to albitization. The mineralized material consists of zircon (as cyrtolite and malacon) pyrochlore, polycrase or fergusonite. columbite. The radiometrical anomaly clearly follows the zone of albitization. c) Third type: post-magmatic deposits which are connected with ultrabasic alkali rocks. Carbonatites are mineralized; pyrochlore and hatchettolite as well as carbonates and fluocarbonates of the rare earths are found. The following radioactive minerals are found: thorianite, monazite, and zircon. The anomaly decreases in the direction from the center to the periphery of the intrusion. Granite pegmatites show only local accumulations of uranium and thorium minerals. Pneumatolytic-hydrothermal deposits could be observed by the enrichment of uranium and thorium. Some

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general remarks are made on the radiometric determination. Finally, it is said that the following deposits have already been determined by means of radiometric methods: diamond, bauxite, phosphorite, titanium copper-bearing sandstones, black shale, and others. There are 7 references: 6 Soviet.

SUBMITTED: April 15, 1960

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LISTENGARTEN, B.M.; TER-OGANESOVA, A.G.

Determining reservoir rock permeability on the basis of the study of water influx of wells. Azerb.neft.khoz. 35 no.5:6-8 My '56. (MLRA 9:10)

(Permeability) (Oil field flooding)

TER-OGANESOVA, V.S.

Conference of young scientists. Neft. khoz. 43 no.8:66 Ag '65. (MIRA 18:12)

TER-OGANESYAN, G.N.

Perinephric novocaine block in complex treatment of tuberculous mesoadenitis. Izv. AN Arm. SSR. Biol.nauki 12 no.10:89-94 O '59.
(MIRA 13:3)

1. Khirurgicheskoye otdeleniye Dilizhanskoy gorodskoy bol'nitsy.
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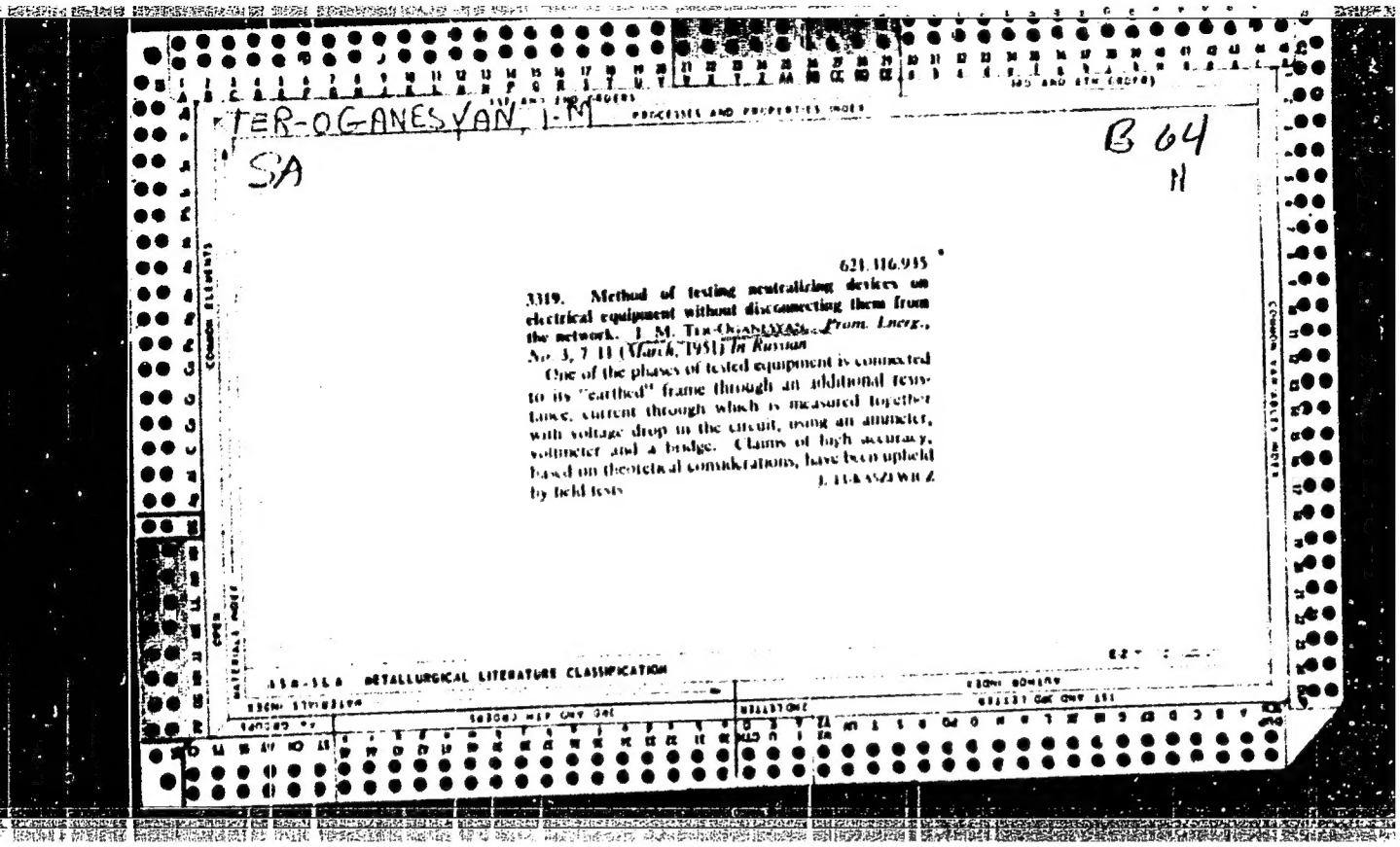
TER-OGANESYAN, G. N., Cand Med Sci -- (diss) "Perinephric novocainal Blockade in the System of the Complex Treatment of Tubercular mezadenites." Yerevan, 1960, 42 pages. (Yerevan State Med Inst), 200 copies. (KL, 29-60, 127)



TER-OGANESYAN, I. M.

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3319. **Method of testing neutralizing devices on electrical equipment without disconnecting them from the network.** I. M. Ter-Oganesyan. *Prom. Energ.*, No. 3, 7–11 (March, 1951). *In Russian*

One of the phases of tested equipment is connected to its "earthed" frame through an additional resistance, current through which is measured together with voltage drop in the circuit, using an ammeter, voltmeter and a bridge. Claims of high accuracy, based on theoretical considerations, have been upheld by field tests.

J. Tuaszewicz

TER-OGANESYAN, I. M.

"Methods of Testing the Zeroing Circuit of the Electric Equipment of Industrial Enterprises." Min Higher Education, Leningrad Electrotechnical Inst imeni V. I. Ul'yanov (Lenin), Leningrad, 1955. (Dissertation for the Degree of Candidate of Technical Sciences)

SO: M-972, 20 Feb 56